QMS® *magicolor*® 330 Print System Getting Started

1800503-001B

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1

Introduction

In This Chapter . . .

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- “About the Documentation” on page 1-2
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About the Printer

The QMS *magicolor* 330 Print System comes in two domestic models: CX, which uses flash memory for storing system software, and EX, which uses an internal IDE hard disk for storing system software. An optional large-capacity input feeder is available for either model.

QMS *magicolor* 330 CX Print System

- 64 MB RAM (upgradable to 384 MB)
- 600x600 dpi resolution; upgradable to 1200x1200 dpi
- Flash ROM to hold system software

QMS *magicolor* 330 EX Print System

- 192 MB RAM (upgradable to 384 MB)
- 1200x1200 dpi resolution
- Internal IDE hard disk to hold system software
- Time-of-day clock

About the Documentation

The documentation provides a window into the many capabilities of your printer. The more familiar you are with the documentation, the easier it'll be for you to achieve the results you want from your printer. This section gives you an idea of how we've organized information and which documents you'll probably refer to the most.

Standard Product Documentation

QMS* magicolor *330 Quick Setup Guide* and *Quick Setup Guide—Options

These handouts (3 and 2 pages, respectively) assist in getting the printer up and running. They are to be used as a quick setup reference only and should be used in conjunction with the full manuals.

	QMS* magicolor *330 Print System Getting Started	You're looking at this document right now. It introduces the printer and documentation, provides instructions on getting the printer set up and running, and explains the control panel. » **Note:** *This manual is also in Adobe Acrobat PDF format on the* magicolor *330 CD-ROM.*
	QMS* magicolor *330 Print System Operation	This manual guides you through the day-to-day operation of your printer. It includes information on printing files, adding print media, and replacing toner. It also includes information on handling, cleaning, and maintaining your printer, improving print quality, and troubleshooting printer problems. » **Note:** *This manual is also in Adobe Acrobat PDF format on the* magicolor *330 CD-ROM.*
 magicolor 330 CD-ROM	***QMS* magicolor *330 Print System Options*** (Adobe Acrobat PDF format)	Refer to this manual for information on installing and using printer options: emulations, security key, memory upgrades, fonts, interfaces, CrownCopy, hard disks, and system software updates.
 magicolor 330 CD-ROM	***QMS* magicolor *330 Print System Reference*** (Adobe Acrobat PDF format)	Refer to this manual when you need to change your printer's configuration. It also provides information on typefaces and fonts, job accounting, printer memory, and other advanced printer features. The system administrator should get the most use from this manual.
 Software Utilities CD-ROM	***QMS Crown Remote Console User's Guide*** (Adobe Acrobat PDF format)	This manual describes how to use the Remote Console software to access printer information and change printer configuration settings from anywhere on the network.

Software Utilities
CD-ROM

QMS Crown Network Notes

(Adobe Acrobat PDF format)

Refer to this document for network tips. It discusses 3Com 3+Open, Banyan VINES, LAN Manager-based LANs, Novell NetWare, TCP/IP, UNIX, DECnet, and VMS. In most cases, only advanced network users and system administrators need this information.

Software Utilities
CD-ROM

QMS CrownNet Setup Guide

(Adobe Acrobat PDF format)

Refer to this manual for complete setup information on the QMS CrownNet Ethernet and QMS CrownNet Token-Ring interfaces.

Software Utilities
CD-ROM

QMS CrownNet System Administrator's Guide

(Adobe Acrobat PDF format)

Refer to this manual when configuring the printer's QMS CrownNet Ethernet or optional QMS CrownNet Token-Ring interface and when using the QMS CrownAdmin software.

Software Utilities
CD-ROM

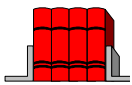
QMS Crown Document Option Commands

(Adobe Acrobat PDF format)

This manual lists and explains all QMS Document Option Commands (DOCs), software codes you insert in documents to enable printer features that can't be accessed by your application or page description language. Printer-supported DOCs are listed in appendix C, "Document Option Commands," of the *Reference* manual. In most cases, only advanced users or system administrators need this information.

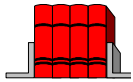
Related Documentation

Several other documents are also helpful when using your printer:



PostScript Reference Manuals

Other manuals that contain PostScript information are the *PostScript Language Reference Manual* (Adobe Systems, Inc., Reading, MA: Addison-Wesley, 1990 ISBN-0201-18127-4), and other PostScript *Language Reference Manual* supplements.



Other Reference Sources

Don't forget that your application documentation, host operating system documentation, and network documentation all contain useful printing information. Further information on QMS printers is available through the Internet and Q-FAX. See appendix A, "QMS Customer Support," for details.

Manuals on the CD-ROMs

The manuals included on the *QMS* magicolor *330 Print System Documentation* and *QMS Software Utilities* CD-ROMs are in Adobe Acrobat PDF format. We've also provided the Acrobat Reader and QuickTime programs on both CD-ROMs. Installment instructions are provided.

About Adobe Acrobat Reader

Adobe Acrobat PDF-formatted manuals give you more flexibility and convenience than do hardcopy manuals when you have to access information. Here are some of the advantages PDF-formatted manuals provide:

- You can store the PDF manuals in a central location for access by anyone on the network.
- You can view and print the manuals on Windows, Macintosh, and UNIX platforms.
- You can view the manuals on web browsers using the Acrobat plug-in.
- You can view the manuals on-screen in different formats (side-by-side or two-up, one page at a time, scrolling two-up, article flow, and zooming capability up to 800%).
- You can conduct full-text searches through all of the manuals.
- You can watch QuickTime video clips on Windows and Macintosh platforms that enhance the text and illustrations for a number of commonly performed procedures. (When installing the Reader, be sure to select the option to install QuickTime.)
- You can print only the manual pages that you need.
- The PDF-formatted manuals have been enhanced for on-screen viewing and navigation. Throughout each manual are numerous

hotlinks to cross-reference points. The table of contents and the index are fully hotlinked to their respective page references, and all World Wide Web addresses are linked to their respective home pages.

We hope you enjoy using the Acrobat software to access the information in your manuals. With quick on-line access, the manuals never become dog-eared and yellowed or collect dust on some forgotten shelf. Your PDF-formatted manuals will empower you to take full advantage of all the capabilities of your printer.

Using Adobe Acrobat Reader

When you use Acrobat to view your manuals, keep the following tips in mind for using some of the navigation features built into Acrobat and your manuals.

- You may view the document in three different styles: page only, with bookmarks, or with thumbnails. Try each to see which you like best. Viewing with bookmarks will enable you to use a quick table of contents to move around the document.
- The toolbar also gives you quick access to page navigation features. For example, you may click a button to advance (>) or reverse (<) one page, go to the start (|<) or end (>|) of the document, or use the history button (<<) to go to the previous pages you viewed. There are other buttons in the toolbar to change view or magnification of the document.
- As you browse through the document the open hand tool will sometimes turn into a pointing hand. You have discovered an embedded link in the manual. You will find these links in the table of contents, index, www addresses, and cross-references. Click on the link to jump to a new location.
- You may discover a movie camera icon on Windows and Macintosh platforms. Click the icon to play a QuickTime video clip of the procedure described in the text.

- Use the Acrobat Reader Online Help for a more complete explanation of these features.

A Note on Media

All QMS manuals are also available in hard copy. In the US, contact QMS Supplies at 1 (800) 523-2696 for purchase information. Elsewhere, refer to appendix A, “QMS Customer Support.”

In addition, many applications, utilities, and printer drivers on the *QMS Software Utilities* CD-ROM are available on alternate media. Contact your QMS vendor for media availability and purchase information. You can also download many of these files via ftp from our World Wide Web Server at http://www.qms.com or our ftp resource at ftp.qms.com. Refer to appendix A, “QMS Customer Support,” for sales and support locations and telephone numbers.

About This Manual

This manual contains detailed, illustrated instructions to guide you as you unpack and set up your printer and connect it to a host computer or network. In addition, it introduces you to the printer’s control panel.

1	**Introduction**	Presents an overview of the documentation and of the printer’s features.
2	**Setting up Your Printer**	Guides you in selecting a location for your printer and explains how to unpack and set up your printer.
3	**Connecting to a PC**	Explains how to connect the printer to a PC using either the parallel or serial port.
4	**Connecting to an Ethernet Network**	Explains how to connect the printer to an Ethernet network using the Ethernet port and how to do the necessary printer and network configuration.
5	**Connecting to a Macintosh**	Explains how to connect the printer to a Macintosh using the optional LocalTalk port.

6	**Using the Control Panel**	Introduces the parts of the printer control panel.
A	**QMS Customer Support**	Provides product sales and support telephone numbers and describes how to communicate with QMS through the Internet and Q-FAX.

Conventions

» **Note:** *Notes contain tips, extra information, or important information that deserves emphasis or reiteration.*

◆ **Caution:** *Cautions present information that you need to know to avoid equipment damage, process failure, or extreme annoyance.*

WARNING! *Warnings indicate the possibility of personal injury if a specific procedure is not performed exactly as described in the manual.*

ACHTUNG! *Bitte halten Sie sich exakt an die im Handbuch beschriebene Vorgehensweise, da sonst Verletzungsgefahr bestehen könnte.*

What's Next?

Chapter 2, "Setting Up Your Printer," explains how to find a good location for the printer, unpack the printer, install consumables (toner cartridges, OPC drum cartridge, fuser oil roller), load and install the standard media cassette, turn the printer on, and print a startup page.

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Setting Up Your Printer

In This Chapter . . .

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- “Checking Shipment Contents” on page 2-6
- “Registering the Printer” on page 2-9
- “Moving the Printer” on page 2-10
- “Getting Acquainted with Your Printer” on page 2-11
- “Setting up the Printer” on page 2-13
- “Installing Options” on page 2-24
- “Connecting the Interface and Power Cables” on page 2-24
- “Troubleshooting” on page 2-25
- “What's Next?” on page 2-26

Introduction

This chapter explains how to set up your printer for the first time. It includes information on finding a good location for the printer, unpacking and checking the shipment contents, installing consumables (toner cartridges, OPC drum cartridge, and fuser oil roller), loading the media cassette, turning the printer on, and printing a startup page.

Finding a Good Location

For a safe and convenient printer operation, consider the following when determining the installation location:

- Away from cooling and heating sources, extreme temperature or humidity changes, direct sunlight, excessive dust, corrosive chemicals or vapors, water pipes, refrigerators, and any strong electromagnetic field (such as that created by an air conditioner).

» **Note:** *If the printer is located in a cold room that is rapidly heated, or if the printer is moved from a cold place to a warm, humid place, condensation may occur within the printer, degrading print quality. If this occurs, allow the printer to adapt to the environment for about one hour before use.*

- Away from water.

  Also, when used near a humidifier, impurities in the water may be released into the air, where they can accumulate inside the printer and cause degraded printer output.

» **Note:** *So, if using a humidifier or water vaporizer in the room with the printer, use only purified or distilled water.*

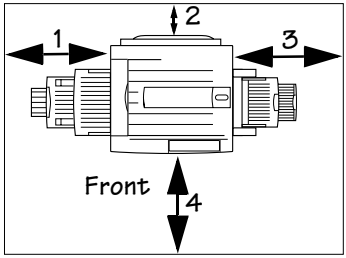
- Away from open flames. Away from items that can easily burn.
- Away from items that produce excessive vibration.
- In an area with an ambient temperature range of 41° to 90° F (5° to 32° C) and relative humidity range of 15% to 85%

(noncondensating). If the ambient temperature is 90° F (32° C), relative humidity should be maintained below 48%. If the relative humidity is 85%, the ambient temperature should be maintained below 18° F (28° C).

- In a well-ventilated area, but away from wind that can blow on it.
- At an altitude of 0–8200 feet (0–2500 m).
- On a hard, flat, level, stable surface capable of supporting approximately the 150 lb (68.4 kg) printer plus consumables and media. The printer must be placed within 0.16 inches (5 mm) front to rear and 0.39 inches (10 mm) left to right of level.
- Near your computer—6.5 feet (2 m) or less for an IEEE 1284 bidirectional parallel connection; cables for other connections may be longer.
- Close to an easily accessible power supply.
- On an exclusively dedicated power outlet. If the printer is connected to the same circuit used by other high-current machines, such as a copier or air conditioner, or to an electrically noisy machine, low voltage or noise may cause overheating, computing errors resulting in data loss, and improper performance.
- With enough space to allow adequate ventilation and easy servicing.
- With clearances shown on page 2-4.

◆ ***Caution:*** *The printer has ventilation grilles on the side and back, which must remain unobstructed for safe operation. The printer should be located at least 6 inches (150 mm) from the wall. Obstructing the grilles could present a fire hazard. Also, to allow proper operation of the printer, including replacement of consumables and routine checks, the illustrated clearances should be provided.*

Top View



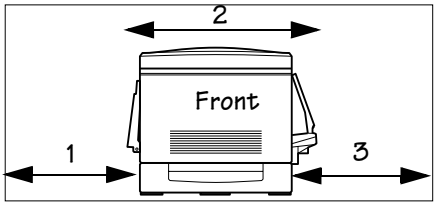
1 20 inches (50.8 cm)

2 5.9 inches (15.0 cm)

3 21.7 inches (55.1 cm)

4 32.9 inches (83.5 cm)

Front View



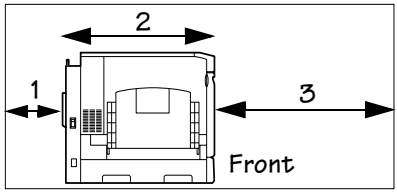
1 20 inches (50.3 cm)

2 28.7 inches (72.9 cm)

3 21.7 inches (55.1 cm)

4 22 inches (59.9 cm)

Side View



1 5.9 inches (15.0 cm)

2 27.2 inches (69.1 cm)

3 32.9 inches (83.5 cm)

Power Requirements

WARNING! *Connect the power plug to an outlet with the same rated voltage as the printer (120, or 240 V), and fused for at least 15 amperes (8 amperes for 240 V). No other devices should be connected to this outlet, as overheating could cause fire or electric shock. The printer draws 11 A at 120 V, or 6 A at 240 V. Your printer requires a properly grounded AC outlet with a rated line voltage of 120 V or 220–240 V. The grounding terminal on the power cable should be connected to a good earth ground to prevent electric shock and fire, or the green grounding wire in the power cable must be connected as follows.*

ACHTUNG! *Schließen Sie das Netzkabel an eine Stromquelle an, die die gleiched Voltzahl wie der Drucker hat (120 oder 240 V) und mindestens 15 Ampere gesichert ist (8 Ampere für 240 V). Schließen Sie keine anderen Geräte an diesen Ausgang an, da sonst als Folge von Überhitzung Feuergefahr oder Gefahr eines Stromschalgs herrscht. Der Drucker zieht 11 A bei 120 V, oder 6 A bei 240 V. Ihr Drucker benötigt einen geerdeten AC Ausgang mit geregeltem Gleichstrom mit 120 V oder 220-240 V. Der Erdungsansluß des Stromkables sollte gut geerdet werden, um Stromschläge und Feuer zu vermeiden, oder das grüne Erdungskabel im Stromkabel muß folgendermaßen angeschlossen sein.*

» **Note:** *In compliance with UL guidelines, "The appliance inlet is considered to be the main disconnect device."*

Fused	For at least 15 amperes (8 amperes for 240 V).
Printer	Draws 11 A at 120 V, or 6 A at 240 V.
Rated Line Voltage	Voltage of 120 V, or 220–240 V must remain within ±10 percent of the rated line voltage for proper operation.
Amperage Capacity of the Electrical Outlet	Amperage capacity at least 1.2 times that used by the printer.

Maximum Electrical Current	Required during operation is 11 amps for a 120 V system, and 6 amps for a 220–240 V system.
Noise-generating Equipment	Should not be connected to the same electrical outlet as the printer.
Recommended Frequency	60 Hz ±2 Hz for a 120 V system, and 50 Hz ±2 Hz for a 220–240 V system.

Energy Star Compliance

The QMS *magicolor* 330 Print System is compliant with US Environmental Protection Agency (EPA) Energy Star regulations. After a specified period of inactivity, the printer changes to a low-power state (the engine remains on, but the fuser turns off). When a print job is received, the printer returns to normal power within a user-configurable time period.

Checking Shipment Contents

Shipment Contents

The standard printer package consists of the following items. Confirm that you have received everything before starting installation.

If any items are missing or damaged, contact your shipping company or your vendor. See appendix A, “QMS Customer Support,” for product sales and support information. Refer to the *Options* manual for optional accessories’ packing information.

» **Note:** *Retain the packing materials if you expect to have to transport the printer.*

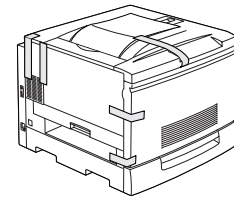
Unpacking Overview

1 Documentation

- *QMS* magicolor *330 Print System Quick Setup Guide* and *Quick Setup Guide—Options* handouts
- *QMS* magicolor *330 Print System Getting Started* (this manual)
- *QMS* magicolor *330 Print System Operation* manual
- *QMS* magicolor *330 Documentation* CD-ROM manuals
  - *QMS* magicolor *330 Print System Quick Setup Guide* and *Quick Setup Guide—Options*
  - *QMS* magicolor *330 Print System Getting Started*
  - *QMS* magicolor *330 Print System Operation*
  - *QMS* magicolor *330 Print System Options*
  - *QMS* magicolor *330 Print System Reference*
- *QMS Software Utilities* CD-ROM
- Colorific color reference card
- Warranty and registration card

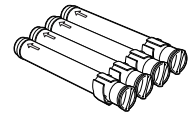
Hard copies of all documentation can be ordered for an additional cost. Contact your vendor.

2 Printer with a built-in 250-sheet universal media cassette



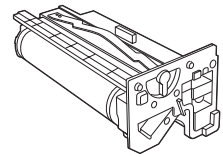
3 Consumables kit

a **Four toner cartridges** (one each of black, magenta, cyan, and yellow)



» **Note:** *At normal 5% coverage, the black cartridge will print 4,500 simplex letter/A4 images while the magenta will print 5,700 images, and the cyan and yellow cartridges will each print 6,000 images.*

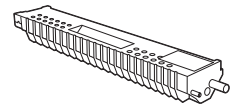
b **OPC drum cartridge** (includes the light-sensitive drum, drum cleaner, and waste toner box)



◆ **Caution:** *Never touch the surface (the blue part) of the drum, or hit or rub the drum surface; if the drum is scratched or contaminated with oil from your hand, printing will be degraded.*

c Fuser oil roller

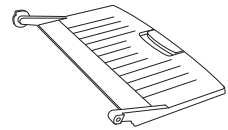
This unit applies the proper amount of fuser oil.



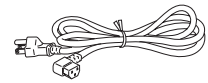
» **Note:** *A high-duty fuser oil roller is available for customers who typically print close to the maximum monthly rate (20,000 pages at over 500 pages per day).*

4 Face-up output tray (left side of printer) with tray extender

5 Multipurpose input tray (right side of printer) with tray extender



6 **AC power cord**



» **Note:** *Interface cables aren't included in the shipment. If you need cables, contact your vendor. See chapters 3, 4, and 5 of this manual for information on the type cable needed.*

Media

If you need alternate media, contact your vendor for media availability and purchase information. (See appendix A, "QMS Customer Support," for sales and support locations and telephone numbers.) You can also download some of these files via ftp from our World Wide Web Server at http://www.qms.com or our ftp resource at ftp.qms.com.

Registering the Printer

You can register your printer through our World Wide Web site, http://www.qms.com/support/prodreg. To register by mail, fill out and send in your warranty card. To register by telephone, in the US call QMS at (334) 633-4500. In other countries, refer to appendix A, "QMS Customer Support," for the appropriate telephone number.

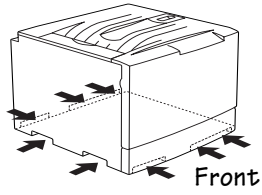
Moving the Printer

WARNING! *The printer weighs about 150 lbs (68 kg). Don't lift it by yourself. Grip the recessed areas provided on the front, back and left side when lifting the printer. Never try to lift the printer by gripping the multipurpose tray, as the printer could fall and cause injuries. Secure a firm footing and bend your knees to avoid possible back injuries.*

ACHTUNG! *Der Drucker wieght ca 68 kg; bitte versuchen Sie niemals, das Gerät alleine anzuheben oder zu tragen. Greifen Sie in die vorgesehenen Gehäuse-Aussparungen vorne, hinten und links wenn Sie den Drucker anheben. Heben sie den Drucker niemals an der Mehrzweckzufuhr an, da das Gerät fallen und Sie verletzen könnte. Stellen Sie sich fest auf den Boden und gehen Sie beim Heben in die Hocke um Rückenverletzungen zu vermeiden.*

Lift the printer from its shipping pallet, and place it in its new location.

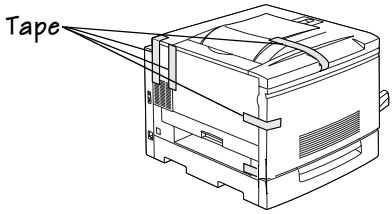
Printer Side View



Printer Top View

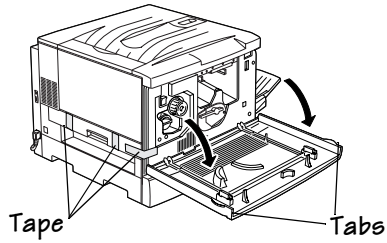
◆ **Caution:** *When preparing to lift the printer, note that the back side is heavier than the front.*

1 Remove any tape securing the outside of the printer.



2 Open the front cover by pulling the tabs forward.

3 Remove any tape holding the fuser unit.



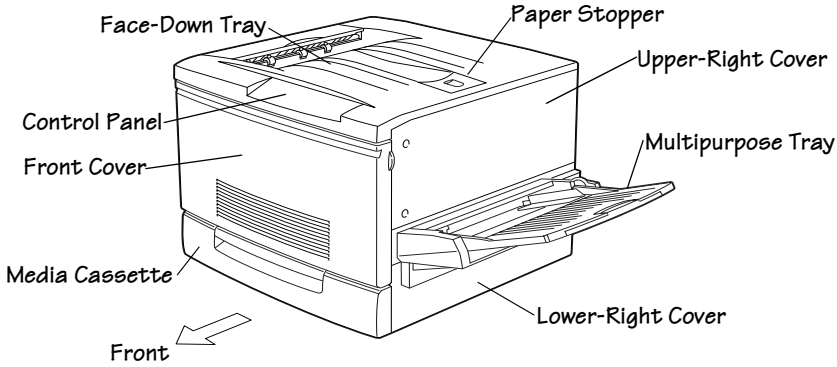
4 Close the front cover.

Getting Acquainted with Your Printer

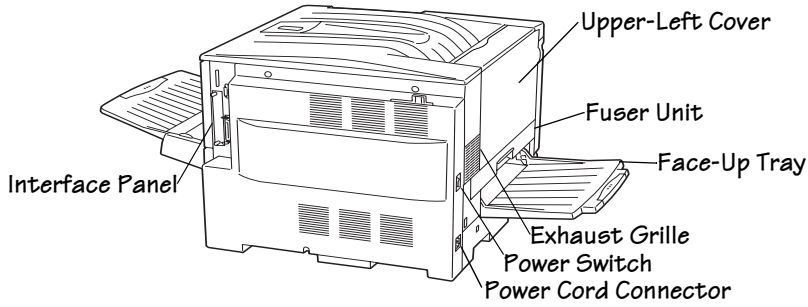
Before installing the consumables and operating the printer, you should become familiar with certain physical items, as shown below.

» **Note:** *If you're using the Acrobat PDF version of this manual, the parts of the printer shown on the next page are hotlinked—by clicking on that portion of the illustration, you will go to the section in the* Operation *manual that pertains to that part.*

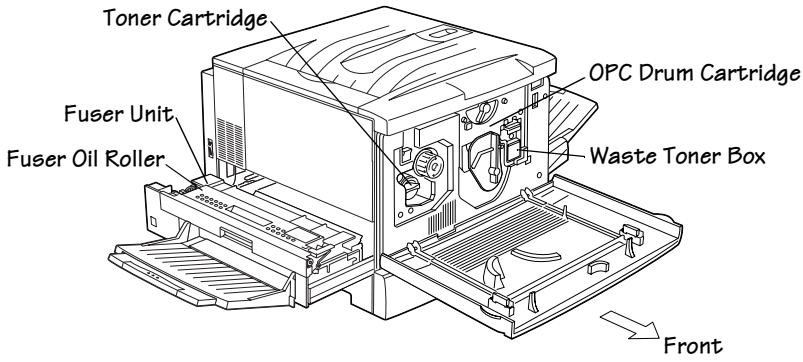
Front View



Rear View



Internal View



Setting up the Printer

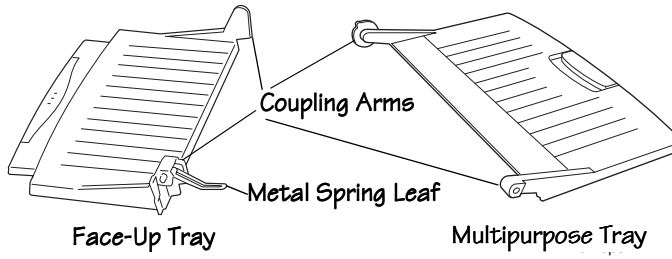
Overview

- Install the face-up (output) tray and the multipurpose (input) tray.
- Remove the fuser unit spacer and the fuser roller separators from the fuser unit, and install the fuser oil roller.
- Remove the toner spacers, install the four toner cartridges, and install the OPC drum cartridge.
- Remove the media cassette spacer and load the media cassette.
- Remove the spacers from the multipurpose tray.
- Remove the shipping tie-wrap.
- Connect the interface and power cables.
- Configure the printer.

See the rest of this chapter for more details.

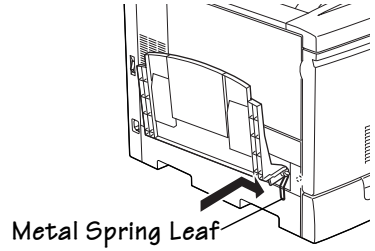
◆ **Caution:** *Spacers are installed in various locations to protect against vibration during shipment. Be sure to remove all of the spacers.*

Install the Face-Up and Multipurpose Trays



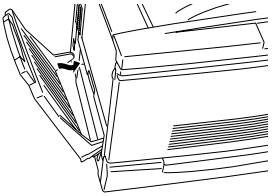
1 **Fold the face-up tray upward, then fit the tray's right coupling arm into the corresponding hole in the printer.**

When doing this, hold the metal spring leaf (ends in a loop) close to the face-up tray.

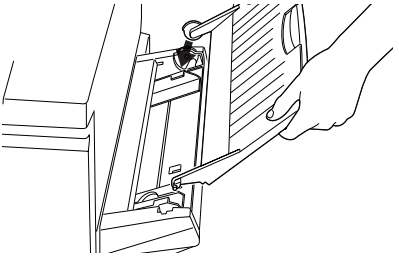


» **Note:** *Make sure that the metal spring leaf extends downward from the tray and does not enter the hole in the printer.*

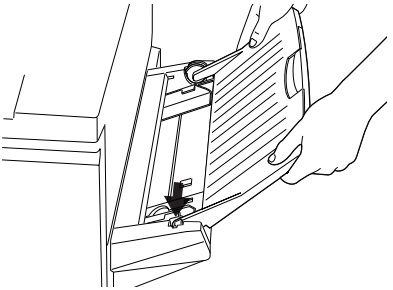
2 **Fit the face-up tray's left coupling arm into the hole in the printer.**



3 **Holding the multipurpose tray with both hands, fit the coupling arm on the right into the slot on the printer**

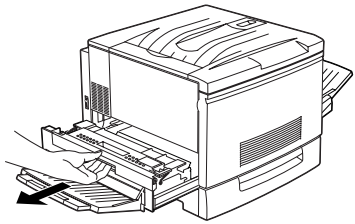


4 **Fit the multipurpose tray's left coupling arm into the slot on the printer, and press downward on the left coupling arm until it latches.**

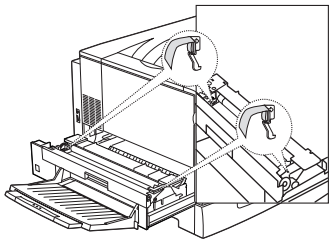


Remove the Fuser Roller Separators and Spacer, and Install the Fuser Oil Roller

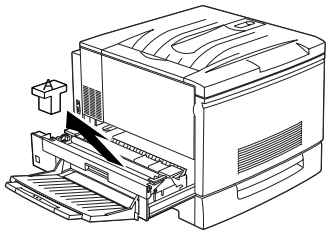
1 Slide the fuser unit on the left side of the printer out as far as it will go.



2 Remove the tape and the two metal fuser roller separators.

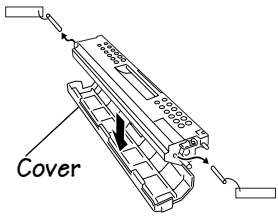


3 Remove the spacer (labeled “A”).



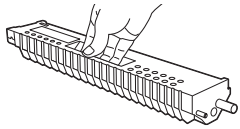
4 Remove the fuser oil roller from its package.

5 Remove its tape, protective cover and two pins.

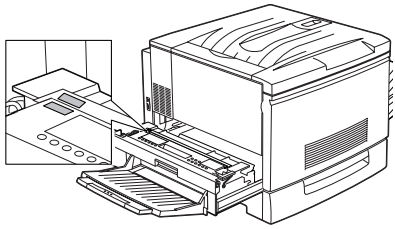


◆ **Caution:** *Oil on this roller will come off on your skin if touched directly. Shield this roller from dust and toner when removing or inserting into the fusing unit.*

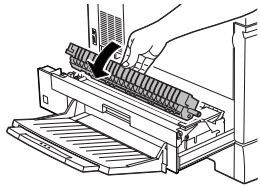
6 Hold the fuser oil roller as shown in the diagram.



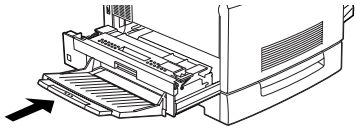
7 Align two colored tabs—one on the fuser unit, and one on the fuser oil roller.



8 Carefully lower the fuser oil roller until it clicks into place.



9 Slide the fuser unit on the left side of the printer firmly back into the printer.



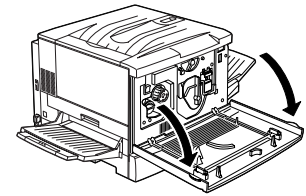
Install the Toner

Remove the Toner Spacers

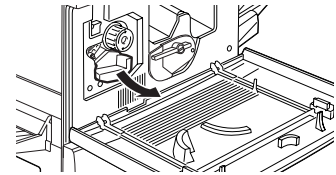
Your printer uses four toner cartridges: black, yellow, magenta, and cyan.

» **Note:** *The toner in the cartridge is nontoxic. However, if you get any toner on your hands or clothes, wash it off promptly with cool water.*

1 **Open the printer's front cover.**

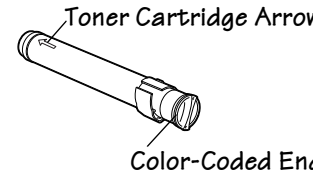


2 **Pull out and remove the foam spacer (labeled with the tag "B").**



Install the Toner Cartridges

1 **Remove each new toner cartridge from its package.**

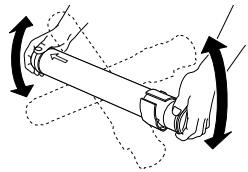


Each toner cartridge has a color-coded end that corresponds to the colored cartridge slots. It doesn't matter which color you start with or in what order the colors are installed. Each cartridge is physically (as well as visually) keyed to ensure correct installation.

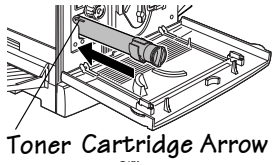
◆ **Caution:** *Always install the toner cartridge in the slot of the same color. If a toner cartridge doesn't slide in easily, don't force it. Check that you're installing the correct color toner cartridge in the correct slot.*

2 **Evenly distribute the toner in the cartridge.**

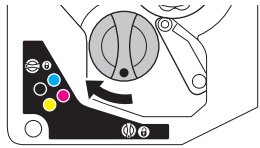
Holding a cartridge with both hands, gently rock it from side-to-side seven or eight times.



3 **Holding the toner cartridge so the arrow is at the top, insert the cartridge as far as it will go.**

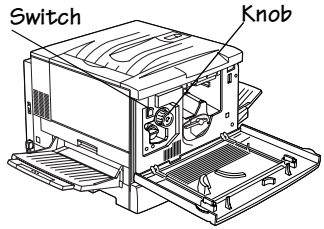


4 **Rotate the toner cartridge clockwise until the "●" mark on the cartridge is aligned with Lock on the printer.**

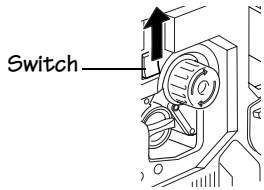


◆ **Caution:** *Be sure to rotate the cartridge all the way to the Lock mark. Otherwise, toner may spill.*

Locate the antirotation switch and the rotation knob.

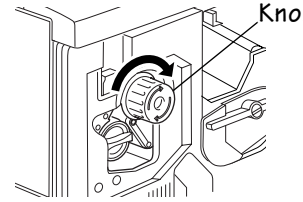


5 **Press and release the anti-rotation switch upward to unlock the knob.**



» **Note:** *Release the switch, or the toner cartridges will rotate too far.*

6 **Turn the knob clockwise as far as it will go to move the cartridge into position.**



» **Note:** *The knob will not turn unless the toner cartridge is set properly. If the knob will not turn, recheck for proper toner cartridge installation.*

7 **Repeat steps 2 to 6 for the next two toner cartridges.**

8 **Repeat steps 2 to 4 for the last toner cartridge.**

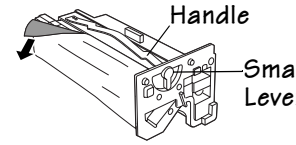
Install the OPC Drum Cartridge

◆ **Caution:** *Never touch the surface (the blue part) of the drum or hit or rub the drum surface. The drum is extremely sensitive to bright light and direct sunlight. Always leave it in its protective bag until you're ready to install it. Handle the cartridge carefully.*

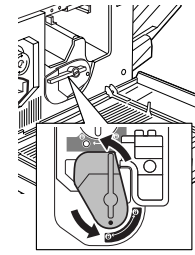
» **Note:** *If the OPC drum is scratched or contaminated with oil from your hand, printing will be degraded.*

1 **Remove the OPC drum cartridge from its packaging.**

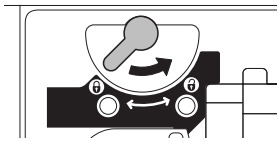
Hold the OPC cartridge by its handle.



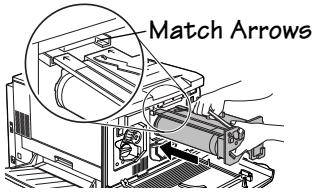
2 **Make sure the large lever below the OPC cartridge cavity is turned counterclockwise and the "●" mark on the cartridge is set to the Unlock position.**



3 **Turn the small lever on the top of the OPC drum cartridge counterclockwise to the Unlock position.**



4 **Align the guide with the top of the printer rail by matching up the small arrows.**

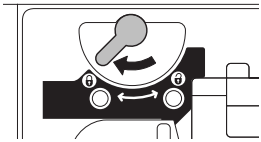


◆ ***Caution:*** *If the guide on the OPC drum cartridge is not aligned with the top of the rail, the cartridge may be damaged.*

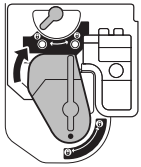
5 **Push the OPC drum cartridge slowly all the way into the printer until it clicks.**

» **Note:** *Unless the drum cartridge is inserted all the way, the levers cannot be turned.*

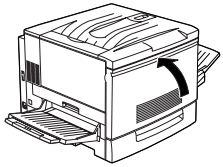
6 **Turn the small lever clockwise to the Lock position.**



7 **Turn the large lever clockwise to set the "●" mark on the cartridge to the Lock position.**



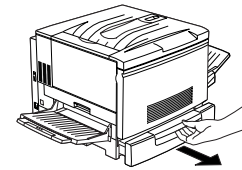
8 **Close the front cover.**



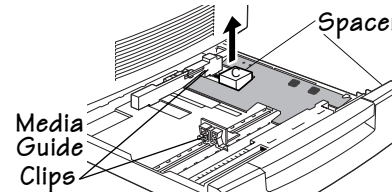
Remove the Media Cassette Spacers

1 **Slide the media cassette out.**

2 **Remove the tape and cardboard spacer from the right side of the cassette.**



3 **Remove the foam spacer (labeled "C") from the media cassette.**



» **Note:** *You may have to slightly open the media guide clips.*

Prepare the Media

Refer to chapter 2, "Print Media," in the *Reference* manual for details on the types of media that are suitable for printing.

1 **Take a stack of about 250 sheets (½ ream).**

» **Note:** *Don't unpack paper above the printer as this might cause paper particles to fall into the printer.*

2 **Holding the stack with one hand, fan the sheets with the other hand.**

This gets air through the sheets and prevents static buildup.

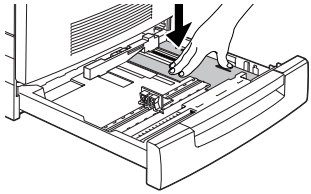
» **Note:** *Do not fan transparencies.*

3 **Take off the top and bottom sheets.**

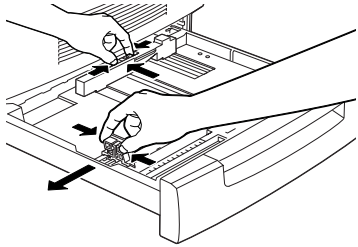
These sheets sometimes have residual glue buildup that could cause a media jam.

Load the Media Cassette

1 Press the metal plate until it latches.

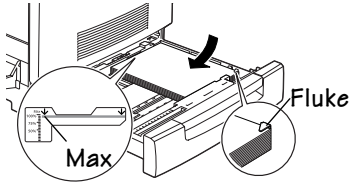


2 Squeeze in the retainers to move the media guide clips all the way toward the outer edges.



3 Align the four corners of the media stack, and insert it under the fluke at the front right side, with the print side facing down.

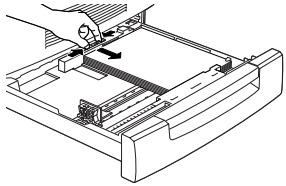
A fill-limit mark is on the inside of the cassette.



» **Note:** *Make sure the top sheet is under the fluke. Do not load more sheets than the maximum specified.*

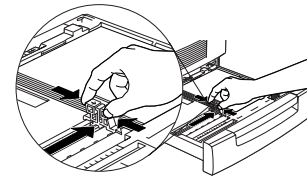
4 Squeeze the media guide clips to move them to the size of the media.

Make sure the media corners are not bent upward by the guides.



» **Note:** *If the guide clip is pressed too tightly against the media, it may cause a jam.*

5 **Align the left guide clip with the appropriate media size mark.**

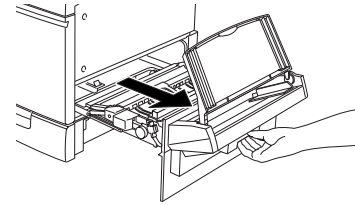


» **Note:** *Automatic media size detection cannot be assured if the vertical guide clip is even slightly out of position. If this occurs, slide the vertical guide clip momentarily to the left edge, then reposition it according to the proper hole in the scale.*

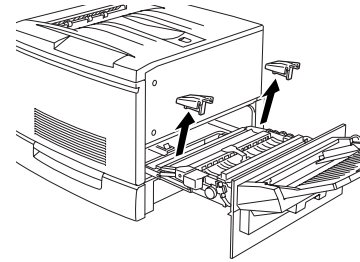
6 **Push the media cassette firmly back into the printer.**

Remove the Multipurpose Tray Protective Pads and Tie-Wrap

1 **Pull the multipurpose tray unit out as far as it will go.**

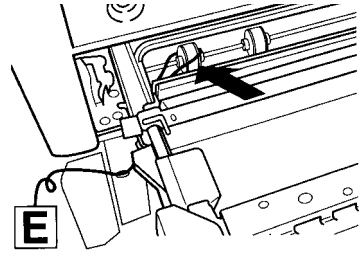


2 **Remove the protective pads.**



3 **Remove the tie-wrap (labeled “E”).**

4 **Push the multipurpose tray unit firmly back into the printer.**



Installing Options

◆ **Caution:** *Remember to turn off the printer before you install an option.*

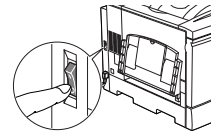
If you purchased any printer options, such as extra memory (SIMMs), emulations, an interface card, or an internal hard disk, install them after you have successfully printed a startup page. More information about startup pages is included in the *Reference* manual.

If installation instructions are included with the option, follow them. If not, instructions are included in the *Options* manual.

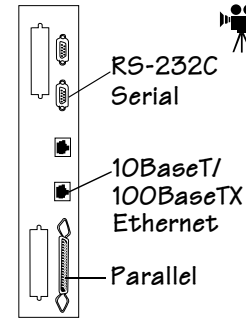
Connecting the Interface and Power Cables

» **Note:** *In compliance with UL guidelines, “The appliance inlet is considered to be the main disconnect device.”*

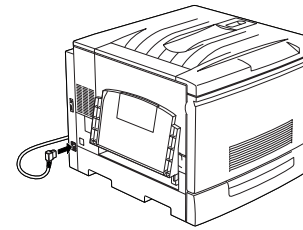
1 **Make sure the printer is turned off.**



2 Refer to the instructions in chapter 3 (parallel and serial), chapter 4 (Ethernet), or chapter 5 (Macintosh) to connect your printer.



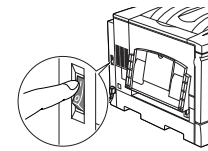
3 Plug the power cord into the connector on the left side of the printer.



» **Note:** *In compliance with UL guidelines, "The appliance inlet is considered to be the main disconnect device."*

4 Turn the printer on.

After a brief warmup (less than five minutes), the printer produces a startup page.



If a startup page doesn't print, see chapter 8 "Troubleshooting Printer Problems" in the *Operation* manual.

Troubleshooting

If you see this...	It's probably because...	Do this...
Colors aren't registering properly.	The OPC drum cartridge is not pushed all the way in.	Repeat the steps in "Install the OPC Drum Cartridge" on page 2-19.

If you see this...	It's probably because...	Do this...
CHECK WASTE TONER message appears in the printer message window.	The waste toner box isn't properly installed.	Make sure the box sits loosely in its compartment and that the top of the box is not wedged under the top of the compartment.
Printouts seem faded on one side of the page.	The printer is not on a level enough surface.	Level the printer surface. The slant of the surface holding the printer should not exceed 1.5° after the printer is placed on it. (For example, a round pencil laid on the surface shouldn't roll in any direction.)
The startup page comes out skewed.	The transfer unit was jarred open during the installation and needs to be closed.	Refer to the "Troubleshooting" chapter in the *Operation* guide for information on opening and closing the unit.

If you've followed all of the instructions in this chapter and still have problems you can't solve, see appendix A, "QMS Customer Support," for information on getting help.

What's Next?

Now that you've set up your printer and installed any options you might have purchased, refer to one of the following chapters to connect it either directly to a computer or to a network:

- Chapter 3, "Connecting to a PC"
- Chapter 4, "Connecting to an Ethernet Network"
- Chapter 5, "Connecting to a Macintosh"

❖

3

Connecting to a Computer

In This Chapter . . .

- “Making a Parallel Connection” on page 3-2
- “Making a Serial Connection” on page 3-4
- “Computer Printing Software” on page 3-6
- “Printing from the Computer” on page 3-21
- “If You Have Trouble” on page 3-21
- “What's Next?” on page 3-22

Introduction

This chapter explains how to connect your printer to a computer through either the parallel port or serial port.

» **Note:** *If you're connecting to a computer through an Ethernet network, refer to chapter 4, "Connecting to an Ethernet Network."*

Overview

1 **Turn off both the printer and the PC.**

2 **Connect the printer to the PC.**

- If you're connecting to a PC through a parallel interface, connect the printer to the PC as described in "Making a Parallel Connection" on page 3-2.
- If you're connecting to the PC through a serial interface, connect the printer to the PC as described in "Making a Serial Connection" on page 3-4.

» **Note:** *If the printer is more than 6.5 feet (2 meters) from the PC, we recommend using an Ethernet or serial connection for better communication.*

3 **Turn on both the printer and the PC.**

4 **Install a printer driver.**

See "Computer Printing Software" on page 3-6.

5 **You're ready to print.**

Making a Parallel Connection

What You Need for a Parallel Connection

Interface cables are not included with your printer. If you're replacing a printer, you may already have the necessary cables. If not, you'll

need to purchase the cables from your vendor or a local computer store.

To connect your printer to a single PC, you need a parallel cable with a 25-pin male connector and a 36-pin male connector.

How to Choose a Parallel Cable

Your printer supports both Centronics parallel and IEEE 1284 bidirectional parallel communications. The type of parallel cable you use depends on the type of parallel communication your computer supports (check your computer user's manual if you're unsure).

- If your computer supports IEEE 1284 bidirectional parallel communication, you need an IEEE 1284 bidirectional parallel cable (IEEE 1284 is indicated on the cable). This cable must be 6.5 feet (2 meters) or less in length.
- If your computer supports only Centronics parallel unidirectional communication, you may use either a Centronics parallel cable (unmarked on cable) or an IEEE 1284 bidirectional parallel cable (IEEE 1284 is indicated on the cable). QMS recommends the IEEE 1284 cable. The IEEE 1284 cable must be 6.5 feet (2 meters) or less in length while the Centronics cable may be longer.

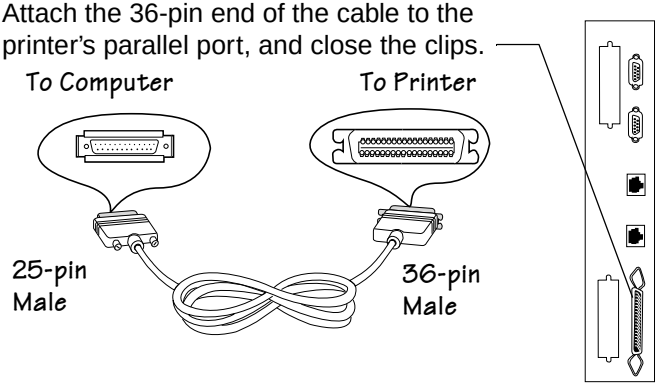
Making the Connection

1 Turn off both the printer and the PC.

2 Connect the PC and the printer using a parallel cable.

a Connect the 25-pin end of the cable to the PC's parallel port, and then tighten the screws.

b Attach the 36-pin end of the cable to the printer's parallel port, and close the clips.



3 Turn on both the printer and the PC.

A startup page should print. If it doesn't, refer to chapter 8, "Troubleshooting," of the *Operation* manual.

4 Test the communication between the printer and the PC.

You can do this by sending a file from one of your applications, or refer to chapter 8, "Troubleshooting," of the *Operation* manual.

Making a Serial Connection

What You Need for a Serial Connection

Interface cables are not included with your printer. If you're replacing a printer, you may already have the necessary cables. If not, you'll need to purchase the cables from your vendor or a local computer store.

To connect your printer to a single PC, you need a serial cable with either a 9- or 25-pin connector (depending on your PC's serial port) and a 9- or 25-pin null modem assembly to connect to the serial cable. Depending on the type of null modem assembly you have, you may also need a 9- to 25-pin adapter. See your cable vendor for more specific cable assembly information.

How to Choose a Serial Cable

For best results, the serial cable should be less than 25 feet (7.6 meters) long.

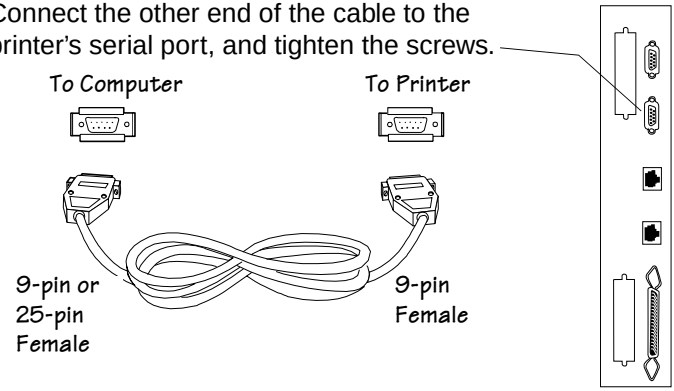
Making the Connection

1 Turn off both the printer and the PC.

2 Connect the PC and the printer using a serial cable.

a Connect the serial cable (with the null modem adapter attached) to the PC's 9- or 25-pin male serial port, and tighten the screws.

b Connect the other end of the cable to the printer's serial port, and tighten the screws.



3 Turn on both the printer and the PC.

A startup page should print, and Serial RS-232C should be listed as an interface. If it doesn't, refer to chapter 8, "Trouble-shooting Printer Problems," of the *Operation* manual.

4 Test the printer—PC communication.

You can do this by sending a file from one of your applications, or refer to chapter 8, "Troubleshooting Printer Problems," of the *Operation* manual.

Computer Printing Software

If you're replacing a PostScript printer, you can probably start printing now with the printing software already in place. Refer to your application documentation for instructions on sending documents to the printer.

However, if you want to be able to use all your printer's special features, or if you've never printed to a PostScript printer before, we recommend you take a few minutes to make sure you have the following printing software installed:

- A PostScript Level 2 printer drive
- Printer description files (if you use QuarkXPress, PageMaker, or Photoshop)

Installing a PostScript Printer Driver

Windows Applications

If you're using Windows, we recommend that you install one of the QMS-developed Level 2 Windows drivers on the QMS *Software Utilities* CD-ROM we shipped with your printer. Drivers are available for

- Windows 3.1
- Windows for Workgroups 3.11
- Windows 95/98
- Windows NT 3.51 (PPDs only)
- Windows NT 4.0

Refer to the README file on the CD-ROM for information on the directory location of each driver. Then refer to the README file in that directory for installation information.

Non-Windows Applications

If you're using a non-Windows application, read the printing section of the application documentation for information on choosing a

PostScript driver. If the application does not provide a PostScript driver, contact the application manufacturer to see if one has become available since you bought the program. Also, PostScript drivers for some applications are available through the Internet; see appendix A, "QMS Customer Support," for information.

Also, check to see if application notes (tips for printing from specific applications) are available for your application from Q-FAX, or the Internet. Appendix A, "QMS Customer Support," explains how to use these QMS information services.

Installing a QMS Level 2 Windows Driver

Windows 95/98

System Requirements

- An IBM or compatible computer with 386 or higher processor
- A hard disk with at least 1 MB of free space
- At least 4 MB of RAM
- Windows 95/98

Installation

◆ **Caution:** *Windows limits the total number of installed printers to 16. Problems may occur if you install both the QMS PostScript printer driver and a QMS Win95 PPD for the Microsoft PostScript printer driver. If they have the same printer model name (for instance "QMS* magicolor *330"), the driver registry entry for one will overwrite the other (even if you have assigned different printer names), and unpredictable behavior will result. If one of these drivers is already installed, you must delete it before installing the other.*

1 With Windows 95/98 running, insert the *QMS Software Utilities* CD-ROM in your computer's CD-ROM drive.

The CD-ROM automatically boots.

2 **In the Welcome dialog box, select Install Printer Utilities and Drivers.**

3 **Read the installation note and then choose Next>.**

4 **In the Installation Type dialog box, select either General Use Installation or Network/Custom Installation, and choose Next>.**

5 **Select QMS Advanced Level 2 Driver for Win95,98 and choose Next>.**

6 **Read the help screen for Microsoft's Add Printer Wizard, and choose Next>.**

7 **Follow the instructions in the Add Printer Wizard.**

8 **When you're prompted to select a manufacturer and printer, choose Have Disk....**

9 **In the Install From Disk window, choose Browse....**

10 **Change to the *x*:\PLATFORM\WINDOWS\DRIVERS\ADVPS2 directory, where *x* is the drive in which you installed the CD-ROM in step 1.**

QMS.INF displays in the File Name list.

11 **Choose OK to return to the Install from Disk window.**

12 **Choose OK again.**

A list of QMS printers displays in the Printers list.

13 **Select the appropriate printer, and then continue following the instructions in the Add Printer Wizard to complete the installation.**

◆ **Caution:** *If you use (or plan to use) Microsoft Word 7.0, do not use the characters " on " the word "on" with a space before and after it) when prompted to name the printer. Word will not display the printer properties of any printer with these characters in its name.*

The installation program copies the driver-related files into the \WINDOWS\SYSTEM directory and updates the Registry.

The program also copies PPD and PDF files into separate subdirectories under the specified installation directory. (See your printer documentation for more information on using these files.) You may delete these files if you don't use applications that require them.

14 When you've returned to the QMS Printer Utilities Setup, continue to install other printer utilities or drivers, or choose Cancel to exit from the setup program.

15 Remove the CD-ROM, and store it in a safe place.

16 Access the default driver settings through the Start/ Settings/Printers menu. Use the online help in the driver for information on driver settings.

Windows 3.1 Windows for Workgroups 3.11

» **Note:** *Although this driver works for Windows 95 and Windows 98, we recommend installing the QMS Advanced Level 2 Driver for Windows 95/98 to take full advantage of all of the printer's features.*

System Requirements

- An IBM or compatible computer with 386 or higher processor
- A hard disk with at least 1 MB of free space
- At least 4 MB of RAM
- Either Windows 3.1 or Windows for Workgroups 3.11

Installation

- **Caution:** *Windows limits the total number of installed printers to 16. Problems may occur if you install both the QMS PostScript printer driver and a QMS Win95 PPD for the Microsoft PostScript printer driver. If they have the same printer model name (for instance "QMS magicolor 330 CX"), the driver registry entry for one will overwrite the other (even if you have assigned different printer names), and unpredictable behavior will result. If one of these drivers is already installed, you must delete it before installing the other.*

1. **With Windows running, insert the *QMS Software Utilities* CD-ROM in the appropriate drive on your computer.**
2. **Access the QMS Printer Utilities Setup:**
   - Windows 95/98—Skip to step 3 because the CD-ROM automatically boots and starts the QMS Printer Utilities Setup.
   - Windows 3.1/Windows for Workgroups 3.11—In Explorer, change to the directory in which you inserted the CD-ROM in step 1, and then double-click the SETUP.EXE icon.
3. **In the Welcome dialog box, select Install Printer Utilities and Drivers.**
4. **Read the installation note and then choose Next>.**
5. **In the Installation Type dialog box select either General User Installation or Network/Custom Installation, and choose Next>.**
6. **Select QMS Level 2 Driver for Win 3.x - Win95,98 and choose Next>.**
7. **Read the help screen for Microsoft's Add Printer Wizard, and choose Next>.**
8. **Follow the instructions in the Add Printer Wizard.**
9. **When you're prompted to select a manufacturer and printer, choose Have Disk....**
10. **In the Install From Disk window, choose Browse....**

11 Change to the *x*:\PLATFORM\WINDOWS\DRIVERS\PSLVL2 directory, where *x* is the drive in which you installed the CD-ROM in step 1.

QMS.INF displays in the File Name list.

12 Choose OK to return to the Install from Disk window.

13 Choose OK again.

A list of QMS printers displays in the Printers list.

14 Select the appropriate printer, and then continue following the instructions in the Add Printer Wizard to complete the installation.

◆ **CAUTION:** *If you use (or plan to use) Microsoft Word 7.0, do not use the characters " on " (the word "on" with a space before and after it) when prompted to name the printer. Word will not display the printer properties of any printer with these characters in its name.*

The installation program copies the driver-related files into the \WINDOWS\SYSTEM directory and updates the Registry (Windows 95/98) and WIN.INI (Windows 3.1 or Windows for Workgroups 3.11) accordingly. Consequently, the specified printers do not need to be installed using Start>Settings>Printers (Windows 95) or Control Panel (Windows 3.1 or Windows for Workgroups 3.11).

The program also copies PPD and PDF files into separate subdirectories under the specified installation directory. (See your printer documentation for more information on using these files.) You may delete these files if you don't use applications that require them.

» **Note:** *If a printer using a Microsoft PostScript printer driver (instead of a QMS Level 2 printer driver) is already installed, the installation program will not overwrite the printer entry if it has the same printer name. Either remove or rename the existing printer entry before installing a new printer entry.*

15 **When you're returned to the QMS Printer Utilities Setup, continue to install other printer utilities or drivers, or choose Cancel to exit from the setup program.**

16 **Remove the CD-ROM, and store it in a safe place.**

17 **Access the default driver settings through the Start/Settings/Printers menu. Use the online help tips and information on how to use specific features of the driver.**

» **Note:** *The QMS Level 2 Windows Driver ships with a default setting of "Compress Output." This feature decreases the time the file stays out on the network because the data is compressed at the host, transferred to the printer, and then decompressed. However, for users who are not on a network, this feature slows print time via the parallel port. To disable this feature, on the Output tab deselect "Compress Output" by clicking on the box. This will greatly reduce print times via the parallel port.*

Windows NT 4.0

System Requirements

- An IBM or compatible computer with 386 or higher processor
- A hard disk with at least 25 MB of free space
- At least 16 MB of RAM (32 MB recommended)
- Windows NT 4.0

Installation

» **Note:** *If you want to be able to print to a QMS CrownNet port, the QMS CrownNet Print Utility for Windows or QMS Network Print Monitor must be installed on your Windows NT workstation or server, and a port must be created before continuing with this installation procedure. See the PRTMONNT.PDF file (Adobe Acrobat format) in the \PLATFORM\WIN_NT\MONITOR directory of the* QMS Software Utilities *CD-ROM for details on installing and setting up this utility. In addition, if a Windows NT 4.0 or a QMS Level 2 Windows NT 4.0 printer driver has been previously installed, you must use the reinstallation procedure on page 3-14.*

1. **With Windows NT 4.0 running, insert the QMS *Software Utilities* CD-ROM in the CD-ROM drive on your workstation.**

   The CD-ROM automatically boots.

2. **In the Welcome dialog box, select Install Printer Utilities and Drivers.**
3. **Read the installation note and then choose Next>.**
4. **In the Installation Type dialog box select either General User Installation or Network/Custom Installation, and choose Next>.**
5. **Select QMS Level 2 Driver for Windows NT 4.0 and choose Next>.**
6. **Read the help screen for Microsoft's Add Printer Wizard, and choose Next>.**
7. **Follow the instructions in the Add Printer Wizard.**
8. **When prompted to select a manufacturer and model of printer, choose Have Disk.**
9. **In the Install from Disk dialog box, choose Browse.**
10. **Change to the *y*:/PLATFORM/WIN_NT/DRIVER/4X/*type* directory, where *y* is the workstation's CD-ROM drive, and *type* is the type of processor on your workstation.**

    QMS.INF displays in the File Name list.

11 Choose OK to return to the Install from Disk window.

12 Choose OK again.

A list of QMS printers displays.

13 Select QMS *magicolor* 330, and continue following the instructions in the Add Printer Wizard to complete the installation.

14 When you're returned to the QMS Printer Utilities Setup, continue to install other printer utilities or drivers, or choose Cancel to exit from the setup program.

15 Remove the CD-ROM, and store it in a safe place.

Reinstallation

» **Note:** *If a Microsoft Windows NT 4.0 or a QMS Level 2 Windows NT 4.0 printer driver has been previously installed, you must use the following procedure to delete the files before installing a new printer driver.*

1 Open Windows NT Explorer (from the Start>Programs menu choose Windows NT Explorer).

2 Delete the printer(s) you want to replace or upgrade.

3 Install the new printers using the installation procedure on page 3-13.

4 Reboot your workstation.

Windows NT 3.51

The QMS PPDs for Microsoft Windows NT 3.51 support all of your printer's features. You can print from Windows NT over the network using one of the following three protocols:

- TCP/IP
- NetBIOS/NetBEUI
- EtherTalk

TCP/IP

1 Insert the *QMS Software Utilities* CD-ROM containing the printer drivers in the appropriate drive at your workstation.

2 **Open Print Manager.**

3 **Choose Printer.**

4 **Choose Create Printer.**

5 **Type the name of the printer in the Printer Name edit box. This is the name that Windows NT will use to identify the printer.**

6 **Select the driver in the Driver list box.**

If your printer is not shown in the list of printers that ships with Windows NT, scroll to the bottom of the list and choose Other. You will be prompted for the path of the PPD (for example, e:\platform\win_nt\ppd\3x\alpha\qmsmc330.ppd).

7 **Type a printer description in the Description edit box.**

8 **Select Print and choose Other.**

9 **Select LPR Port.**

10 **Check with your system administrator the correct IP address of the printer, and type it (without leading zeros) in both the Name Or Address Of Host Providing LPD and Name Of Printer On That Machine edit boxes.**

11 **Choose OK and close the Print Manager.**

NetBIOS/NetBEUI

» **Note:** *The QMS CrownNet Print Utility must be installed on your Windows NT workstation or server and a port must have been created. See the* QMS CrownNet System Administrator's Guide *for details on installing and setting up this utility.*

1 **Insert the *QMS Software Utilities* CD-ROM containing the printer drivers in the appropriate drive at your workstation.**

2 **Open Print Manager.**

3 **Choose Printer.**

4 **Choose Create Printer.**

5 **Type the name of the printer in the Printer Name edit box. This is the name that Windows NT will use to identify the printer.**

6 **Select the driver in the Driver list box.**

If your printer is not shown in the list of printers that ships with Windows NT, scroll to the bottom of the list and choose Other. You will be prompted for the path of the PPD (for example, e:\platform\win_nt\ppd\3x\alpha\qmsmc330.ppd).

7 **Type a printer description in the Description edit box.**

8 **Select Print to and choose Other.**

9 **Select Local Port.**

10 **Type the path of the spool directory and the port name (for example, c:\spool\qmsmc330 (where c:\spool is the spool directory and qmsmc330 is the port name).**

11 **Choose OK and close the Print Manager.**

EtherTalk

» **Note:** *The AppleTalk Protocol must be Installed and running on your NT workstation or server before you can print.*

1 **Insert the *QMS Software Utilities* CD-ROM containing the printer drivers in the appropriate drive at your workstation.**

2 **Open Print Manager.**

3 **Choose Printer.**

4 **Choose Create Printer.**

5 **Type the name of the printer in the Printer Name edit box. This is the name that Windows NT will use to identify the printer.**

6 **Select the driver in the Driver list box.**

If your printer is not shown in the list of printers that ships with Windows NT, scroll to the bottom of the list and choose Other.

You will be prompted for the path of the PPD (for example, e:\platform\win_nt\ppd\3x\alpha\qmsmc330.ppd).

7 **Type a printer description in the Description edit box.**

8 **Select Print to and choose Other.**

9 **Select AppleTalk Printing Devices.**

10 **Choose the correct zone.**

11 **Select the printer.**

12 **Choose OK and close the Print Manager.**

Notes on Installing Printer Description Files

The QMS Level 2 Windows Driver install program SETUP.EXE copies PPD and PDF files into separate subdirectories under the specified installation directory. See the QMS Level 2 Windows Driver for more detailed driver information. Online help is provided through the QMS Level 2 Windows driver. You may delete the PPD and/or PDF files if you don't use applications that require them.

Applications may require special files, drivers, and/or configurations to produce correct output on your QMS *magicolor* 330 Print System. Check your application's documentation to determine if you need to use one or more of these files.

CorelDRAW 4.0 and Higher

This application provides a feature to control whether a PostScript driver is actually treated as a PostScript driver or not. In the COREL-PRN.INI file under the [PSDRIVERS] section, specify which driver by either of the following statements:

`QMSPS=1`↵ (PostScript driver)
`QMSPS=0`↵ (Non-PostScript driver)

Excel

If you're using this application with color cell backgrounds in a sparse dot pattern, the background may not always print in all resolutions and/or orientations. Interference between the bit pattern and the Post-Script halftoning for color causes this inconsistency. Change the reso-

lution to one that does work for the background and use a darker shade of black for the pattern color, or enable the All Colors to Black option from within the Excel Images dialog box.

Illustrator

For best output quality and accurate screening, install the QMS-developed Windows driver as described in “Installing a QMS Level 2 Windows Driver” on page 3-7. Then do the following to change the default resolution:

1 **In Illustrator, enable 600 dpi by choosing Document Setup from the File menu.**

» **Note:** *Illustrator 5.5 has a default setting of 300 dpi.*

2 **Click on Use Printer’s Default Screens to enable it.**

3 **Go to Output Resolution and enter the resolution.**

PageMaker

We recommend that you install a Windows Printer Description (WPD) file instead of the QMS Level 2 Windows driver with PageMaker 5.0 because PageMaker requires a Microsoft 3.56 or higher Windows driver. Use the following procedure to install a WPD file.

» **Note:** *Keep in mind that many of the QMS Level 2 Windows driver features are not available from within PageMaker using the Microsoft Windows Driver.*

1 **In the Windows Main group, double-click the Control Panel icon.**

2 **Double-click the Printers icon.**

The Printers dialog box displays the list of installed printers. If no printer is installed, the install button and the list of available Windows 3.1 printers displays. If no printer is installed, skip to step 4, otherwise continue at step 3.

3 **Click the Add button to install a new printer.**

4 **In the List of Printers dialog box, select Install Unlisted or Updated Printer.**

5 **Click the Install button and the Install Driver window displays.**

6 **Insert the *QMS Software Utilities* CD-ROM.**

7 **Type `y:\platform\windows\ppd\wpd3x`↵ (where *y* is the drive in which you inserted the CD-ROM), or use Browse to select the path, and then choose OK.**

The list of available QMS printers displays.

8 **Select the QMS *magicolor* 330 printer, then choose OK.**

If Windows does not ask for an updated driver, the printer appears in the list of installed printers.

If Windows asks for an updated driver, put PageMaker disk #6 in the disk drive, then type the letter of that drive.

9 **Choose OK.**

The printer appears in the list of installed printers.

PPD files are also to be used with PageMaker 5.0. They were copied into the PPD subdirectory of the QMS Level 2 Windows driver directory during the installation process. They should be stored in the \ALDUS\USENGLISH\PPD4 directory. This directory is typically found in the \WINDOWS directory, but PageMaker allows you to install it anywhere on your system.

If you're not sure where the \ALDUS directory is, open Windows File Manager, and search (the File menu) for "aldus" starting from the C:\ directory. Make sure you select "Search All Subdirectories."

Persuasion

This application won't print EPS (Encapsulated PostScript) images if the PostScript driver isn't PSCRIPT.DRV.

Photoshop

For best output quality and accurate screening, install the QMS-developed Windows driver as described in "Installing a QMS Level 2 Windows Driver" on page 3-7.

Then do the following:

1 **From Page Setup dialog box of the Photoshop application, select Screens.**

2 **Then click the Use Printer's Default Screen box to enable it.**

In addition, RGB graphics created in Photoshop 2.5 and later include data called RGB tags, which causes Photoshop to use its own algorithms when converting RGB data to CMYK for separations. Unless these tags are disabled (possible in all versions except 3.01), Photoshop converts all RGB data to CMYK rather than letting the printer perform the conversion. Use the following procedure to disable RGB tags in Photoshop for Windows. (RGB tags are disabled by default in Photoshop for Macintosh.)

1 **Make a backup copy of the Photoshp.ini (Photoshop 2.5x) or Photos30.ini (Photoshop 3.0 and later) initialization file.**

2 **Using a text editor, open the original initialization file.**

3 **In the [Photoshop] section of the initialization file, add the following line:**

```
Disablergbtags=1
```

4 **Save the initialization file (in text-only format).**

5 **Restart Photoshop.**

QuarkXPress 3.3 and Higher

Follow this procedure to install the PDF. See your QuarkXPress documentation for detailed information on installing PDFs.

» **Note:** *All PDFs are copied into a PDF subdirectory during the QMS Level 2 Windows Driver installation process.*

» **Note:** *Quark 4.00 uses PDFs or PPDs.*

1 **After you install the QMS driver for Windows, close the QuarkXPress application on your computer.**

2 **Copy the QuarkXPress PDF from its installation directory to the QuarkXPress directory on your computer.**

3 **Restart QuarkXPress.**

4 **Check the Page Setup menu to verify that your printer is in the list of available printers.**

Other Applications

The scaling factor set in the driver is independent of any scaling factor set in an application. While the application's scaling factor is likely to affect the size and placement of image elements, the driver scaling factor simply scales the resultant image from the center of the page.

Printing from the Computer

You're now ready to print from your computer. From this point, you'll probably perform most printing tasks from your application. For specific information, check the printing section in your application documentation.

For information on print media types and sizes, see chapter 2, "Print Media," in the *Reference* manual.

If You Have Trouble

If you have trouble connecting and configuring your computer interface, refer to the "Output Problems" section of chapter 8, "Troubleshooting," of the *Operation* manual for troubleshooting tips.

What's Next?

Now that you've connected your printer to a computer, continue with chapter 6, "Using the Control Panel," in this manual to learn about the printer's control panel keys, indicators, and message window.

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4

Connecting to an Ethernet Network

In This Chapter . . .

- "Connecting to the Network" on page 4-3
- "Configuring the Interface" on page 4-3
- "Configuring the Network" on page 4-10
- "Installing the QMS CrownNet Print Monitor (IPX) or the QMS Network Print Monitor (TCP/IP)" on page 4-11
- "Where To Go From Here" on page 4-12
- "If You Have Trouble" on page 4-13
- "What's Next?" on page 4-13

Introduction

The QMS CrownNet Ethernet interface is a combination of hardware and host software that allows your printer to be connected to an Ethernet network that supports the following:

Network Connection	Protocol
AppleTalk, Macintosh OS	EtherTalk
LAN Manager, LAN Server	NetBIOS/NetBEUI
NetWare	IPX/SPX
TCP/IP	TCP/IP
Windows 3.1, Windows 95/98, Windows NT	TCP/IP, NetBIOS, NetBEUI, EtherTalk

The instructions given in this chapter are the minimum steps needed to get your printer up and printing. For complete installation information refer to the *QMS CrownNet Setup Guide*. For information on configuring the CrownNet interface and using the CrownNet software (CrownAdmin, CrownNet Manager, and the CrownNet Print Monitor for Windows), refer to the *QMS CrownNet System Administrator's Guide*.

Overview

1. **Connecting the printer to the network.**
2. **Configuring the CrownNet interface.**
3. **Configuring the network.**
4. **Installing the QMS CrownNet Print Monitor or a QMS Network Print Monitor.**

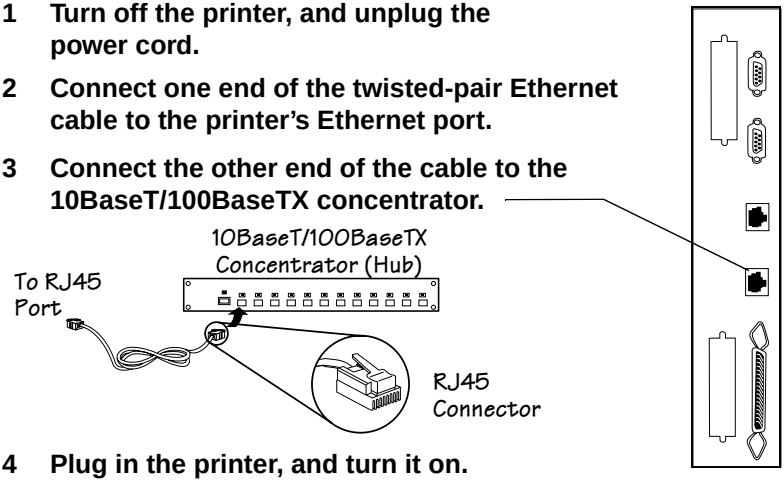
Connecting to the Network

The printer provides a twisted-pair (10BaseT/100BaseTX) Ethernet interface. Twisted-pair Ethernet connections use RJ45 connectors.

1 **Turn off the printer, and unplug the power cord.**

2 **Connect one end of the twisted-pair Ethernet cable to the printer's Ethernet port.**

3 **Connect the other end of the cable to the 10BaseT/100BaseTX concentrator.**



4 **Plug in the printer, and turn it on.**

» **Note:** *In compliance with UL guidelines, "The appliance inlet is considered to be the main disconnect device."*

Configuring the Interface

This section briefly describes the configuration procedure for the CrownNet Ethernet printer interface. For a complete discussion of all of the configuration options available through the Administration/Communications/Resident NIC/CrownNet menu, see chapter 2, "Interface Configuration," of the *QMS CrownNet System Administrator's Guide*. You can make these configuration changes through any of the following means:

- **Printer control panel**—For information on using the printer control panel to change configuration menu settings, refer to chapter 4, "Printer Configuration," of the *Reference* manual.

- **CrownAdmin (for Macintosh), CrownAdmin (for AIX, HP-UX, Solaris/SunOS, and Windows/Windows NT/Windows for Workgroups), or CrownNet Manager (for OS/2)**—For more information on using this software, refer to the appropriate chapter in the *QMS CrownNet System Administrator's Guide* or to the software's online help.
- **Remote Console**—For information on accessing Remote Console, refer to the appropriate chapter in the *QMS CrownNet System Administrator's Guide*. For information on using Remote Console, refer to the *QMS Crown Remote Console User's Guide*.

EtherTalk Interface Configuration

For complete information on the printer driver installation and configuration, see chapter 5, "Connecting to a Macintosh."

OS/2 LAN Manager/LAN Server and Microsoft Windows Network Interface Configuration

1 **One unique printer name is broadcast to the network. Use the Administration/Communications/Resident NIC/CrownNet/LAN Manager/Printer Name menu to enter the name of the printer.**

» **Note:** *The name can be up to 16 characters long. Spaces and lowercase characters are not allowed. Underscore characters (_) are allowed to simulate multiword names (for example, PRODUCT_MKTG).*

2 **You're now ready to print.**

From this point, you'll probably perform most printing tasks from your application. For specific information, check the printing section in your application documentation.

For information on print media types and sizes, see chapter 2, "Print Media," in the *Reference manual*.

NetWare 3.x Interface Configuration

Unless you want to use the default settings, use the following procedure to name the file and print servers. These names must be unique.

» **Note:** *In CrownAdmin, the printer shows up as* `QMS_xxxx_Print_System_hardwareaddress`*, where* `xxxx` *is the printer model number and* `hardwareaddress` *is the printer's hardware address as found on the printer startup page. This address will be blank until the interface has been reset following installation.*

1 In the Administration/Communications/Resident NIC/CrownNet/NetWare/Config PServer/File Srv Name[1], File Srv Name[2], and File Srv Name[3] menus, enter the name of the target file server (primary 3.*x* configuration server).

» **Note:** *The three File Srv Name[x] menus allow you to identify 1 file server with a name up to 47 characters long. (Up to 16 characters can be entered in each of the 3 menus). You cannot use these 3 menus to identify 3 file servers. Up to 16 file servers are supported. To enter the 15 other file server names, use CrownAdmin.*

Spaces and lowercase characters are not allowed within file server names. However, underscore characters (_) are allowed to simulate multiword names (for example, PUBS_SERVER). At the printer control panel only, a space must be used following the last character of the file server name to end the name. For example, the file server name

FIRSTGROUP_GROUPS_BLUE_TEAM_TEAMS_CRC_QMS

is 42 characters long, and must be entered as follows:

```
FILE SRV NAME[1]
FIRST_GROUP_GROU

FILE SRV NAME[2]
PS_BLUE_TEAM_TEA

FILE SRV NAME[3]
MS_CRC_QMS<space>
```

where <space> is the space character.

2 In the Administration/Communications/Resident NIC/CrownNet/NetWare/Config PServer/PServer Name[1], PServer Name[2], and PServer Name[3] menus, enter the name of the bindery print server.

» **Note:** *The three PServer Name[x] menus allow you to identify one print server with a name up to 47 characters long. (Up to 16 characters can be entered in each of the 3 menus). You cannot use these 3 menus to identify 3 print servers.*

Spaces and lowercase characters are not allowed in print server names. However, underscore characters (_) are allowed to simulate multiword names (for example, PUBS_PSERVER). At the printer control panel only, a space must be used following the last character of the print server name to end the name. For example, the print server name

FIRSTGROUP_GROUPS_BLUE_TEAM_TEAMS_CRC_QMS

is 42 characters long, and must be entered as follows:

```
PSERVER NAME[1]
FIRST_GROUP_GROU

PSERVER NAME[2]
PS_BLUE_TEAM_TEA

PSERVER NAME[3]
MS_CRC_QMS<space>
```

where <space> is the space character.

3 In the Administration/Communications/Resident NIC/CrownNet/NetWare/RN Printer#1/PServer Name[1], PServer Name[2], and PServer Name[3] menus, enter the name of the print server.

» **Note:** *The three PServer Name[x] menus allow you to identify 1 print server with a name up to 47 characters long. (Up to 16 characters can be entered in each of the 3 menus). You cannot use these 3 menus to identify 3 print servers.*

Spaces and lowercase characters are not allowed. However, underscore characters (_) are allowed to simulate multiword

names (for example, PUBS_PSERVER). At the printer control panel only, a space must be used following the last character of the print server name to end the name. For example, the print server name

FIRSTGROUP_GROUPS_BLUE_TEAM_TEAMS_CRC_QMS

is 42 characters long, and must be entered as follows:

```
PSERVER NAME[1]
FIRST_GROUP_GROU
```

```
PSERVER NAME[2]
PS_BLUE_TEAM_TEA
```

```
PSERVER NAME[3]
MS_CRC_QMS<space>
```

where <space> is the space character.

4 Reset the CrownNet interface by using the Administration/ Communications/Resident NIC/CrownNet/Common/Soft Reset menu.

5 You're now ready to print.

From this point, you'll probably perform most printing tasks from your application. For specific information, check the printing section in your application documentation.

For information on print media types and sizes, see chapter 2, "Print Media," in the *Reference manual*.

NetWare 4.x Interface Configuration

Unless you want to use the default settings, use the following procedure to name the file and print servers. These names must be unique.

» **Note:** *In CrownAdmin, the printer shows up as `QMS-xxxx-Print-System-hardwareaddress`, where `xxxx` is the printer model number and `hardwareaddress` is the printer's hardware address as found on the printer startup page.*

1 In the Administration/Communications/Resident NIC/CrownNet/NetWare/Config PServer/PServer Context[1], PServer

Context[2], and PServer Context[3] menus, enter the name of the configuration file server, the print server name, and the print server context.

» **Note:** *The three PServer Context[x] menus allow you to identify the name of the NDS configuration file server and the print server context.*

The format for the option is

a File server name

b Space

c Print server name

d Print server context

For example, if the configuration file server name is QMS-4 and the printer server name is PRINTSERV2, and the printer server context is SALES.QMS, you would enter

QMS-4 PRINTSERV2.SALES.QMS

File Server Name	Print Server Name	Print Server Context
QMS–4	PRINTSERV2	.SALES.QMS

» **Note:** *Make sure to put a space between the file server name* (QMS-4) *and the print server name* (PRINTSERV2.).

Up to 16 characters can be entered in the Pserver Context[1] field, and additional 16 characters in Pserver Context[2] field, and 16 characters in the Pserver Context[3] field.

» **Note:** *If you want to assign more than 14 characters to the file server name you must use CrownAdmin to enter the name.*

2 Reset the CrownNet interface by using the Administration/ Communications/Resident NIC/CrownNet/Common/Soft Reset menu.

3 You're now ready to print.

From this point, you'll probably perform most printing tasks from your application. For specific information, check the printing section in your application documentation.

For information on print media types and sizes, see chapter 2, "Print Media," in the *Reference* manual.

TCP/IP Interface Configuration

1 **If necessary, in the Administration/Communications/Resident NIC/CrownNet/TCPIP/Internet Address menu, enter the printer's Internet address.**

The factory default Internet address is 161.033.128.024.

» **Note:** *Only the IP address needs to be entered. It is not necessary to enter the subnet mask.*

2 **If necessary, in the Administration/Communications/Resident NIC/CrownNet/TCPIP/Default Router menu enter the Internet address of the default router.**

The factory default router address is 000.000.000.000.

3 **If necessary, in the Administration/Communications/Resident NIC/CrownNet/TCPIP/Subnet Mask menu enter the printer's subnet mask.**

The default subnet mask is 000.000.000.000. This setting provides automatic sensing of gateways. If you identify a subnet mask, automatic sensing is disabled.

4 **You're now ready to print.**

From this point, you'll probably perform most printing tasks from your application. For specific information, check the printing section in your application documentation.

For information on print media types and sizes, see chapter 2, "Print Media," in the *Reference* manual.

Configuring the Network

Unless you are using TCP/IP, it is not necessary to do this right now. You can configure the network after the printer is up and running.

For complete instructions, refer to the *QMS CrownNet Setup Guide*.

TCP/IP Network Configuration

1 **Log on the UNIX system as root.**

2 **Edit the system host table by adding the following line to the /etc/hosts file:**

```
internetaddress hostname
```

where *internetaddress* is the Internet address of the printer (Administration/Communications/Resident NIC/CrownNet/ TCPIP/Internet Address menu) and *hostname* is the name of the host.

3 **If necessary, set the hardware address.**

◆ **Caution:** *We strongly recommend that you do not change the hardware address.*

- If you're working on a system other than a UNIX system, set the hardware address through the printer control panel.
- If you're working on a UNIX system, send the hardware address to the print server by typing

```
arp -s hostname hardwareaddress temp↵
ping hostname↵
```

where *hostname* is the name of the host and *hardware address* is the hardware address of the printer (in the form *##.##.##.##* as found on the printer startup page).

» **Note:** *You can also send the hardware address of a UNIX system through the BOOTP and RARP utilities.*

Installing the QMS CrownNet Print Monitor (IPX) or the QMS Network Print Monitor (TCP/IP)

It is not necessary to install these right now. You can do this after the printer is up and printing.

For complete instructions, refer to the *QMS CrownNet Setup Guide, QMS Network Print Monitor for Windows NT (or 95) Administrator's Guide*.

Where To Go From Here

In addition to this chapter, the following documentation contains information you may need:

- *QMS CrownNet Setup Guide*—Contains detailed setup information.
- *QMS CrownNet System Administrator's Guide*—Provides detailed configuration and utility information.
- CrownAdmin online help—Contains detailed information on using CrownAdmin. Choose Contents from the Help menu in the main CrownAdmin window (or choose any Help button) to access the online user's guide.
- CrownNet Print Monitor online help—Contains detailed information on using CrownNet Print Monitor.
- *QMS Crown Remote Console User's Guide*—Explains how to use Remote Console to control printing from a workstation anywhere on the network.
- Your network documentation—Contains information on printing.

- *QMS Network Print Monitor Administrator's Guide*—Contains detailed information on using the QMS Network Print Monitor for Windows NT.
- QMS Network Print Monitor online help—Contains detailed information on using the QMS Network Print Monitor for Windows NT.
- *Network Print Monitor for Windows 95 Administrator's Guide*—Contains detailed information on using the QMS Network Print Monitor for Windows 95.
- QMS Network Print Monitor for Windows 95 online help—Contains detailed information on using the QMS Network Print Monitor for Windows 95.

If You Have Trouble

If you have trouble connecting and configuring your Ethernet interface, refer to the "CrownNet Problems" section of chapter 8 in the *Operation* manual.

What's Next?

Now that you've connected your printer to an Ethernet network, continue with chapter 6, "Using the Control Panel," to learn about the printer's control panel keys, indicators, and message window.

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5

Connecting to a Macintosh

In This Chapter . . .

- “Printing over an Ethernet Network” on page 5-2
- “Making the Ethernet Connection” on page 5-3
- “Macintosh Printing Software” on page 5-3
- “Printing from the Macintosh” on page 5-7
- “If You Have Trouble” on page 5-8
- “What's Next?” on page 5-8

Introduction

Ethernet has become the industry standard network connection, and it is the most common method currently used to connect a Macintosh to a QMS printer. An Ethernet port is built into your *magicolor* 330 Print System and most current Macintosh computers.

» **Note:** *If you want to print via LocalTalk, refer to the* Options *manual for information on installing an optional LocalTalk interface.*

Printing over an Ethernet Network

1 **Refer to chapter 4, "Connecting to an Ethernet Network" for connection information.**

2 **If your network has more than one zone, use the Administration/Communications/Resident NIC/CrownNet/EtherTalk/ Zone Name/Zone Part 1 and Zone Part 2 menus to enter the name of the zone to which the printer is attached.**

» **Note:** *The two Zone Part x menus allow you to identify 1 zone with a name up to 32 characters long. (Up to 16 characters can be entered in each of the two menus). You cannot use these menus to identify two separate zones. Trailing spaces are not considered part of the zone name. All standard printable ASCII characters are valid except the @ and ' symbols. The names are case sensitive.*

3 **You're now ready to print.**

From this point, you'll probably perform most printing tasks from your application. For specific information, check the printing section in your application documentation.

For information on print media types and sizes, see chapter 2, "Print Media," in the *Reference manual*.

Making the Ethernet Connection

Overview

1. **Turn off both the printer and the Macintosh.**
2. **Connect the printer to the Macintosh via the printer's built-in Ethernet port.**
3. **Turn on both the printer and the Macintosh.**
4. **Install a printer driver.**

   See "Macintosh Printing Software" on page 5-3.
5. **Now you're ready to print.**

Macintosh Printing Software

If you're replacing a PostScript laser printer, you can probably start printing now with the printing software already in place. Refer to your application documentation for instructions on sending documents to the printer.

However, if you want to be able to use all your printer's special features or if you've never printed to a PostScript printer before, we recommend you take a few minutes to make sure you have the following printing software installed:

- QMS Macintosh Utilities
- A PostScript printer driver, usuallly installed with the Macintosh system software
- Application-specific printer files

Installing Macintosh Utilities

QMS Macintosh Utilities are programs for controlling the printer from the Macintosh. It is included on the *QMS Software Utilities* CD-ROM that shipped with your printer.

1. **With the Macintosh on, insert the *QMS Software Utilities* CD-ROM in your Macintosh's CD-ROM drive.**
2. **If necessary, double-click the CD-ROM icon to display the CD-ROM contents.**
3. **Double-click the PLATFORM folder icon to display the folder contents.**
4. **Double-click the MAC folder icon to display the folder contents.**
5. **Double-click the UTILS folder icon to display the folder contents.**
6. **Double-click the UTILS installer icon.**
7. **In the dialog box that appears, verify the Install location.**

   To change the Install Location you can either use the drop-down list box to display and select the appropriate disk, or you can choose the Switch Disk button to scroll through the available disks.

8. **Also in the dialog box, choose Easy Install or Custom Install.**

   - **Easy Install** automatically installs all of the utilities, including the PDFs, PPDs, and the screen fonts.
   - **Custom Install** allows you to choose the options you want to install. The amount of available space on your hard disk and the amount of space necessary for all of the selected options are indicated near the bottom of the window.

» **Note:** *If you're using Custom Install, you can click the small icon (it looks like a capital I inside a square) to the right of each install option for more information about that option.*

9 Choose the Install button to begin.

Installation takes only a few minutes. The Installer places all of the options inside a newly created PSExec *f* folder in the location you chose in step 7.

10 When the installation is finished, you're prompted to choose either Continue or Quit.

Continue allows for additional installations of the software, and Quit exits the installer program.

Installing Macintosh PPDs and Other Printer Files

To be able to use all your printer's special features, you need to take a few minutes to load the following software:

- QMS *magicolor* 330 PPD file

  See the following section, "Installing the QMS *magicolor* 330 PPD," for information.

- Printer files for Aldus/Adobe PageMaker, Aldus/MacroMedia FreeHand, Adobe PrePrint, Adobe Separator, or QuarkXPress

  See "Other Printer Files" on page 5-6 for information.

Installing a QMS *magicolor* 330 PPD

A PPD (PostScript Printer Description) file is used by a software printer driver to provide specific information about the printer you have selected.

The LaserWriter driver reads the PPD file to ascertain printer-specific information. Once this information is read, the driver can display certain options or configurations of the *magicolor* 330 through the print dialog box. Supported paper sizes, color matching, and halftone information are examples of options that can be configured. The LaserWriter driver is provided with your Macintosh system software.

Although the QMS *magicolor* 330 supports the Apple LaserWriter driver, we recommend using the latest version of LaserWriter provided by Apple.

The QMS *magicolor* 330 PPD (a printer description file) is provided with your printer so you can take advantage of special printer features while using the LaserWriter driver.

1 **If you haven't already, install a LaserWriter driver.**

   Refer to your Macintosh documentation or see if there is an installed LaserWriter driver in the Chooser.

2 **If you haven't already, follow the instructions given above in "Installing Macintosh Utilities" on page 5-4.**

3 **Open the PSExec *f* folder you created in "Installing Macintosh Utilities" on page 5-4.**

4 **Open the 4.x PPD's folder.**

5 **Select the QMS *magicolor* 330 printer description file and drag it to the Printer Descriptions folder on your Macintosh hard disk.**

6 **From the Apple menu, select Chooser.**

7 **In the Chooser window, select the LaserWriter 8.*x* icon, and then select the QMS *magicolor* 330.**

8 **Choose the Setup button.**

   This causes the LaserWriter to query the printer and automatically choose the appropriate PPD.

9 **Close the Chooser.**

   Now, when you go into your application, you can access QMS printing options by choosing Options or Printer-Specific Options in your application's Print dialog box.

Other Printer Files

If you use any of these applications, install the appropriate printer description file (PPD and/or PDF) as described below:

1 **If you haven't already, follow the instructions given above in "Installing Macintosh Utilities" on page 5-4 and in "Installing a QMS magicolor 330 PPD" on page 5-5.**

2 **Install the appropriate printer description file(s) for your application from the PSExec *f* folder:**

- **If you use FreeHand,** install the version 4.*x* PPD in the Printer Descriptions folder.
- **If you use PageMaker 5.*x*,** install the version 4.*x* PPD in the Printer Descriptions folder.
- **If you use QuarkXPress 3.3 or later,** you can use the QMS *magicolor* 330 PPD. However, **if you use an earlier version**, install the QMS *magicolor* 330 PDF in the QuarkXPress folder in the PDF folder. To select the PDF, go to Quark's Page Setup dialog box. Under Printer Type, select the QMS *magicolor* 330 PDF and select the Use Printer Default Screen Angles checkbox. Also in Quark's Page Setup dialog box, make sure None is selected for the EFI Color profile option.
- **If you use Adobe Separator,** install the PPD file. The Adobe Separator documentation explains where to put it.

Printing from the Macintosh

You're now ready to print from your Macintosh. From this point, you'll probably perform most printing tasks from your application. For specific information, check the printing section in your application documentation. For information on print media types and sizes, see chapter 2, "Print Media," in the *Reference* guide.

A Note for Users of Aldus Applications

If you use an Aldus application (or one that used to be owned by Aldus, such as PageMaker or FreeHand), when you want to print, hold down the Option key while selecting Print from the File menu. This brings up the LaserWriter dialog box, which contains the QMS printing options. Normally, Aldus applications bypass LaserWriter and use an Aldus printer driver, which prevents you from accessing QMS printing options.

A Note for Users of Adobe PhotoShop

If you use PhotoShop, go to PhotoShop's Page Setup dialog box, and select Use Printer's Default Screen under the Screens option. This allows your choices in the QMS driver to take effect.

If You Have Trouble

If you have trouble connecting and configuring your Macintosh interface, refer to chapter 8, "Troubleshooting Printer Problems," in the *Operation* manual for troubleshooting tips.

What's Next?

Now that you've set up your *magicolor* 330 and are printing documents from your Macintosh computer, continue with chapter 6, "Using the Control Panel," to learn about the printer's control panel keys, indicators, and message window.

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6

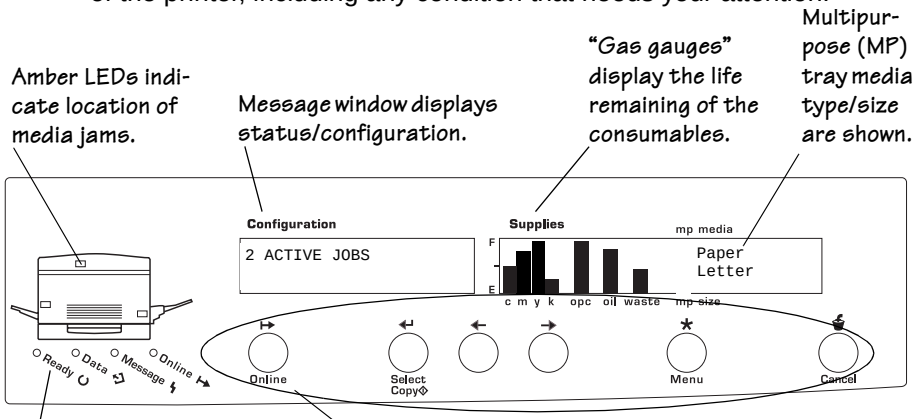
Using the Control Panel

In This Chapter . . .

- “Configuration/Message Window” on page 6-3
- “Control Panel Indicators” on page 6-4
- “Control Panel Buttons” on page 6-4
- “What's Next?” on page 6-6

Introduction

The control panel, located on the front of the printer, allows you to direct the printer's operation. In addition, it displays the current status of the printer, including any condition that needs your attention.



Control Panel Indicators (LEDs) provide visual indication of

Ready (green)

Data (flashing green)

Message (amber)

Online (green)

Control Panel Buttons

Online switches the printer between online and offline status.

The dual-purpose button Select is used to select menu options, while Copy is for the optional CrownCopy function.

Previous scrolls backward through the menu options.

Next scrolls forward through the menu options.

Menu enters the configuration menu system.

Cancel goes to the Cancel menu, giving the option to cancel either the current job or all jobs, or to end the current job.

Configuration/Message Window

The control panel message window (2 lines, 16 characters) provides status and configuration information. Status messages are listed in chapter 8, “Troubleshooting,” of the *Operation* manual. Printer configuration is explained in chapter 4, “Printer Configuration,” of the *Reference* manual.

Setting the Configuration/Message Window Language

Menu	Administration/Miscellaneous/Keypad Language
Purpose	Change the message window language.
Choices	English, French, German, Spanish
Default	English
Notes	*The printer must be restarted for changes to this menu to take effect. You can either let the printer restart automatically after you save the change and exit from the configuration/ message menu, or you can wait for the change to take effect the next time you manually turn on the printer.*

Control Panel Indicators

Indicator	On	Off
	Amber lights indicate the location of any media jam.	
Ready	Remains on when the printer has finished warming up and is ready to print. » **Note:** *When this indicator is blinking, the printer is warming up or is in Energy Saver mode.*	When the printer experiences a condition that will not allow the printer to operate, or the printer is not ready to print.
Data	The printer is receiving data through one or more of its simultaneous interfaces (usually accompanied by a status message in the message window).	The printer is not receiving data.
Message	Indicates the printer requires operator attention (usually accompanied by a status message in the message window).	
Online	Indicates that the printer is on line and ready to accept data.	The printer is off line and not ready to accept data, or an error condition exists.

Control Panel Buttons

The six buttons on the control panel enable you to review and change printer settings.

The buttons used in printer configuration are explained in detail in chapter 4, “Printer Configuration,” of the *Reference* manual. Before

using Select, Previous, Next, and Menu buttons, press the Online button to take the printer off line.

Button	Function
	The **Online** button switches the printer between online and offline status. When off line, the printer continues printing until it has finished all jobs received, but it doesn't accept any new data. Although jobs continue to compile and print using the data already received, a job may be interrupted. The printer must be offline and idle before accessing the menu system. If a remote computer has taken the printer off line, pressing the Online button on the control panel will not take effect until the computer puts the printer back on line. » **Note:** *You must take the printer off line before using all other buttons except the Copy and Cancel buttons.*
	This button has a dual purpose. When the printer is offline, press the **Select** button to access a menu, scroll through the menu, or to choose a displayed menu option. The selected item is denoted with an asterisk. » **Note:** *You must take the printer off line before using this button as the Select button.*
	When the optional CrownCopy is installed, you can use this button to access the **Copy** menu while the printer is online to print a copy or configure CrownCopy.
	Press the **Previous** button to return to the previous selection or option for the current menu. When changing character information, use this button to return to the previous choice for the current input character. The Previous button is used to scroll through the entries in a menu in reverse order. The menu is designed to wrap around when the end has been reached.
	Press the **Next** button to advance to the next selection or option in the current menu. When changing character information, use this button to advance to the next choice for the current input character.

Button	Function
*	The **Menu** button provides access to the configuration menu. First press the Online button to take the printer off line, and then press the Menu button to access the configuration menu. When you're changing the printer configuration, press this button to cancel a change (before pressing the Select buttons), to return to a previous menu, or to return to a previous character when entering character information.
	The **Cancel** button allows you to go to the Cancel menu, giving the option to cancel either the current job or all jobs, or to end the current job. (See chapter 3, "Advanced Printing Features," in the *Operation* manual for complete information.) You can use this button while the printer is on line. » **Note:** *If you press the Cancel button by mistake, or if you decide not to cancel a print job after pressing this button, press the Menu button to "cancel" the Cancel button's function.* The Cancel button also cancels any print job that is being interpreted. The printer will cancel all jobs that have not already been rasterized. So, if you press Cancel, you may see up to 9 sheets still print. That is due to the speed with which the controller rasterizes sheets. This button will send an end-of-job indicator to print jobs waiting for incoming data.

What's Next?

Now you're ready to print. For more information on the day-to-day operation of your printer, refer to the *Operation* manual. For more technical information, refer to the *Reference* manual.

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A

QMS Customer Support

In This Appendix . . .

"Sources of Support" on page A-2

"QMS World-wide Offices" on page A-5

Sources of Support

Several sources of help and information are available, depending on the type of help you need.

Your QMS Vendor

Your local vendor (the one from whom you bought the printer) may be best equipped to help you. Your vendor has specially trained service technicians available to answer questions, and the equipment to analyze your printer problems.

Your Application Vendor

Often, “printing” problems have more to do with the application being used than with the printer. In this case, the application manufacturer is the best source of help.

Q-FAX

Q-FAX, a QMS information retrieval service, provides application notes, technical support notes on common printing problems, and information about printer specifications, options, accessories, consumables, and prices.

In the United States and Canada, call (800) 633-7213 to reach Q-FAX. In all other countries, call (334) 633-3850. Have your fax number handy when you call (or place the call from your fax machine's handset).

You can choose to have either a directory (a list of currently available documents) or a specific document sent to you. The first time you call, request the directory (press 2 on your phone or fax keypad when prompted). Then call back to request specific documents. You can order up to three documents per call.

Internet

The QMS server provides access to technical reports, new product announcements, a trade show schedule, and other general information about QMS.

If you have access to the World Wide Web, you can view the QMS home page at http://www.qms.com/. The QMS ftp resource is ftp.qms.com.

QMS Customer Response Center (CRC)

You can contact the QMS Customer Response Center (CRC) in three different ways:

- **Telephone**—You can call the CRC at (334) 633-4500 (US) Monday–Friday, 7:00 am–6:00 pm, Central Time.

» **Note:** *If you call for assistance, have the following information ready so our technicians can help you more quickly:*

  - ☑ Your phone number, fax number, and shipping address
  - ☑ A description of the problem
  - ☑ The printer model and serial number
  - ☑ The type of host computer you're using
  - ☑ The type and version of operating system you're using
  - ☑ The interface you're using, and, if serial, the protocol (for example, XON/XOFF)
  - ☑ The application and version you're using
  - ☑ The emulation of the file you're trying to print (listed on both the status and startup pages)
  - ☑ Your printer firmware version (listed on the status/startup pages)
  - ☑ A status page, if you can print one

- **Fax**—You can fax questions to the CRC at (334) 633-3716 (US). Provide the same information as listed above, and indicate whether you would like a faxed or a phoned reply.
- **Internet**—If you have access to the World Wide Web, you can access the CRC through the QMS home page at http://www.qms.com/

QMS World-wide Offices

QMS United States and Latin America

General Contact
1 (334) 633-4300
Fax 1 (334) 633-4866
Email info @qms.com
Internet http://www.qms.com
Information on QMS products, supplies, and accessories, and on the authorized QMS remarketer or service provider nearest you
1 (800) 523-2696

Customer Response Center (CRC)
Technical Assistance
1 (334) 633-4500 7:00 am–6:00 pm Central Time
Fax 1 (334) 633-3716
Internet http://www.qms.com

Latin America Fax
1 (334) 639-3347

National Service
Service Information, Installation, and Maintenance Pricing
1 (800) 762-8894
On-Site Service and Depot Repair Information
1 (800) 858-1597 7:00 am–7:00 pm Central Time
Spare Parts Ordering and Information
1 (334) 633-4300 x2530 8:00 am–5:00 pm Central Time

QMS Canada

General Contact
1 (514) 340-0646
Fax 1 (514) 340-0401
Supplies and Accessories 1 (800) 268-0343 x223

National Service
On-Site Service and Depot Repair Information
1 (800) 268-4969 8:30 am–7:00 pm Eastern Time
Spare Parts Ordering and Information
1 (905) 206-9234 x238 8:30 am–5:00 pm Eastern Time

QMS in Japan

General Contact
(+81)-3 3779-9600
Fax (+81)-3 3779-9650
Internet http://www.qmsj.co.jp

QMS EMEA

QMS Australia	Anitech Sydney Business & Tech. Centre 52/2 Railway Parade 2141 Lidcombe NSW Australia (+61) 2–9901 3235 Fax (+61) 2–9901 3273 Internet http://www.qmsaus.com.au/
QMS Benelux **Belgium, Netherlands, and all unlisted countries**	Planetenbaan 60 'Corner Plaza' 3606 AK Maarssen The Netherlands (+31) 346–551333 Fax (+31) 346–550170 Internet http://www.qms.com.nl
QMS France	Vélizy Plus 1 Bis, Rue du Petit Clamart 78142 Vélizy Cedex France (+33) 1–410 79 393 Fax (+33) 1–408 30 110
QMS GmbH **Germany and Austria**	Gustav Heinemann Ring 212 D-81739 Munich Germany (+49) 89 63 02 67 0 Fax (+49) 89 63 02 67 67
QMS Italy	Via della Repubblica 56 43100 Parma Italy (+39) 52–1231 998 Fax (+39) 52–1232 902

QMS Nordic **Sweden, Finland, Norway, and Denmark**	Arenavägen 41, 6th floor 121 77 Johanneshov Sweden (+46) 8–600 01 30 Fax (+46) 8–600 01 33
QMS South Africa	Saskay House Unit 24 Sunninghill Business Park Peltier Road, Sunninghill, Johannesburg Republic of South Africa (+27) 11–807 6957 Fax (+27) 11–807 6960
QMS UK **United Kingdom and Ireland**	Old Bridge House, The Hythe Staines, Middlesex TW18 3JF United Kingdom (+44) 1784–442255 Fax (+44) 1784–461641

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